# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 10/18/2017 09:17 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/18/2017 09:13 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017 (Expired)
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123542 | -2 | 1.72 | 123412 | 1.72 |
| Blue | F | SSC | 125000 | 124227 | -1 | 2.79 | 124601 | 2.62 |
| Blue | E | FITC | 23615 | 22975 | -3 | 2.67 | 1018 | 10.38 |
| Blue | D | PE | 26739 | 26725 | -1 | 2.35 | 959 | 9.80 |
| Blue | B | PerCP-Cy5-5 | 48339 | 47629 | -2 | 3.49 | 1361 | 16.84 |
| Blue | A | PE-Cy7 | 45021 | 44281 | -2 | 5.20 | 684 | 35.78 |
| Red | C | APC | 53064 | 51796 | -3 | 2.81 | 2994 | 9.59 |
| Red | A | APC-Cy7 | 57175 | 55809 | -3 | 2.80 | 1156 | 11.15 |
| Violet | B | V450 | 14728 | 14177 | -4 | 5.69 | 682 | 9.52 |
| Violet | A | V500 | 58621 | 57214 | -3 | 5.62 | 2529 | 7.41 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19627 | 3.43 | 608 | -6 | N/A | N/A | Pass |
| Blue | F | SSC | 61248 | 1.93 | 546 | 0 | N/A | N/A | Pass |
| Blue | E | FITC | 114 | 37.49 | 547 | -1 | 0.0202 | 62 | Pass |
| Blue | D | PE | 211 | 28.73 | 537 | 1 | 0.1633 | 241 | Pass |
| Blue | B | PerCP-Cy5-5 | 214 | 44.84 | 635 | 0 | 0.0103 | 104 | Pass |
| Blue | A | PE-Cy7 | 76 | 117.59 | 693 | 0 | 0.0117 | 14 | Pass |
| Red | C | APC | 350 | 27.49 | 596 | -1 | 0.0195 | 29 | Pass |
| Red | A | APC-Cy7 | 126 | 40.81 | 579 | -1 | 0.0057 | 1744 | Pass |
| Violet | B | V450 | 82 | 42.36 | 471 | 1 | 0.0564 | 2463 | Pass |
| Violet | A | V500 | 184 | 22.34 | 499 | 2 | 0.0170 | 617 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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| Input Device: | Carousel | Date: | 10/18/2017 09:17 AM |
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| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.85 | -31.59 | 0.84 |
| Blue | 20.35 | 16.27 - 24.41 | 1.24 | 0.99 - 1.49 | 0.00 | 0.00 | 1.32 |
| Red | 18.64 | 13.27 - 19.91 | N/A | N/A | 31.80 | 32.12 | 1.16 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 14518

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments